

## CLAIMS

1. Process for constructing databases for digital television services, wherein it comprises:
  - 5 a) - a step of tuning by the tuner a carrier frequency;
  - b) - a step of filtering by a demultiplexer the signal received by the tuner tuned to a given carrier frequency ;
  - c) - a step of extracting the data representing the information table of the current network;
  - 10 d) - a step of storing in a table the trio of information items constituted by the information table, the carrier frequency, and an identifier;
  - e) - a step of extracting the data representing the service table;
  - f) - a step of storing the trio constituted by the service table, the frequency of the carrier and the identification of the SDT service table.
- 15 2. Process according to Claim 1, wherein it comprises a step of compressing the data thus obtained.
3. Process according to Claim 1, wherein the compression step uses a key for storage in a section of the database which is also stored with the information, the said key being derived from the carrier frequency.
- 20 4. Process according to Claim 1, wherein it furthermore includes:
  - g) - a step of searching by the tuner for the next carrier frequency and repetition of steps b) to f) until the whole of the frequency span has been swept.
5. Use of the process according to Claim 1 in a services installation
  - 25 procedure, wherein it consists in interrogating, for a given carrier frequency the content of the database so as to extract therefrom the service information table;
    - a step of decompressing the network information table and the SDT service table;
    - 30 - a step of despatching this information to buffers for use by the decoder.
6. Use of the process according to Claim 1 in a procedure for maintaining the database section, wherein it consists in running the database construction procedure for a given carrier frequency and in
  - 35 verifying that the version of the network information tables obtained by the procedure is higher than the version recorded in the database and in this case in storing the trio in compressed form.

7. Receiver of digital television transmissions comprising a memory, means of reception making it possible to filter and to extract from a signal transmitted on a carrier frequency, data representing the network information table, wherein the memory contains a database containing at least one trio constituted by an information table, the carrier frequency corresponding to the network whose information table is extracted, and an identifier of the table; and in that it furthermore comprises means for updating the data of the database; means for injecting the tables into the interface of the application program of the demultiplexer so as to select the filter appropriate to the desired channel; means for copying into the MPEG stack of the operating system the database data provided for a given carrier frequency.

8. Receiver according to Claim 7, wherein the selected table segment is injected by injection means into the buffer of the channel of the decoder constituting an MPEG stack.

9. Receiver according to Claim 7, wherein the database comprises the compressed data of the network information table, the frequency of the carrier and an identifier;

- the compressed data of the SDT services table, the frequency of the carrier and an identifier.